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ABSTRACT OF THE DISCLOSURE

When the increasing gradient of the operating power is larger than a predetermined gradient, if a master pressure PM2 corresponding to a second predetermined operating power F2 is larger than a second predetermined fluid pressure Pth2, a servo function failure in the brake operation is determined; if it is smaller than the second predetermined fluid pressure Pth2, fluid leakage failure (S23, S26, S27) is determined. Furthermore, if the master pressure PM0 corresponding to the first predetermined operating power F0 is larger than a first predetermined fluid pressure Pth1, small amount fluid leakage failure is determined; if it is smaller than the first predetermined fluid pressure Pth1, large amount fluid leakage failure (S28, S29, S30) is determined. On the other hand, when the increasing gradient of the operating power is smaller than a predetermined gradient, if the master pressure PM0 is smaller than the first predetermined fluid pressure Pth1, servo function failure is determined; if it is larger than the first predetermined fluid pressure Pth1, the normal condition (S32, S33) is determined. Therefore, the type of the failure can be detected based on both the operating power and the master pressure.